ACU·RITE®

Instruction Manual

Thermometer

models 02029W

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Questions? Contact Customer Support at (877) 221-1252 or visit www.**AcuRite**.com

SAVE THIS MANUAL FOR FUTURE REFERENCE.

ACU·RITE®

Congratulations on your new AcuRite product. To ensure the best possible product performance, please read this manual in its entirety and retain it for future reference.

Unpacking Instructions

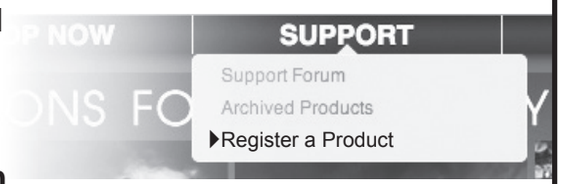
Remove the protective film that is applied to the LCD screen prior to using this product. Locate the tab and peel off to remove.

Package Contents

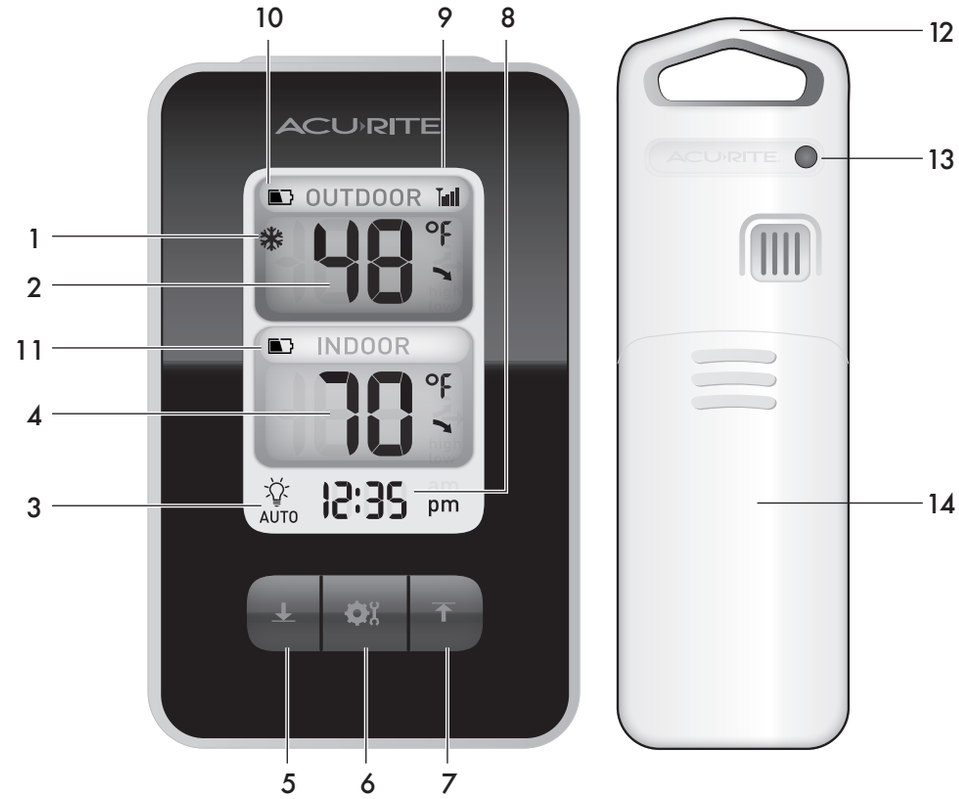
1. Display unit
2. Outdoor sensor
3. Power adapter
4. Instruction Manual

IMPORTANT PRODUCT MUST BE REGISTERED TO RECEIVE WARRANTY SERVICE

PRODUCT REGISTRATION
Register online
to receive 1 year
warranty protection
www.**AcuRite**.com



Features & Benefits



DISPLAY UNIT

1. **Freeze Alert Indicator**
   Indicates temperature is below freezing (33°F; 0°C).
2. **Current Outdoor Temperature**
   Arrow icon indicates the direction the temperature is trending.
3. **AUTO DIM Mode Indicator**
   See page 6.
4. **Current Indoor Temperature**
   Arrow icon indicates the direction the temperature is trending.
5. **DOWN Button**
   For setup preferences and press to view low records.
6. **SET Button**
   For setup preferences.
7. **UP Button**
   For setup preferences and press to view high records.
8. **Clock**
9. **Outdoor Sensor Signal Strength**
10. **Outdoor Sensor Low Battery Indicator**
11. **Indoor Sensor Low Battery Indicator**

OUTDOOR SENSOR

12. **Integrated Hanger**
    for easy placement.
13. **Wireless Signal Indicator**
    Flashes when data is being sent to the display unit.
14. **Battery Compartment Cover**

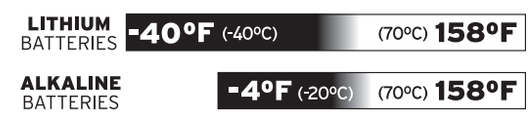
Sensor Setup

Install or Replace Batteries

AcuRite recommends high quality alkaline or lithium batteries in the outdoor sensor for the best product performance. Heavy duty or rechargeable batteries are not recommended.

The sensor requires lithium batteries in low temperature conditions. Cold temperatures can cause alkaline batteries to function improperly. Use lithium batteries in the sensor for temperatures below -4°F / -20°C.

1. Slide off the battery compartment cover.
2. Insert 2 x AA batteries into the battery compartment, as shown. Follow the polarity (+/-) diagram in the battery compartment.
3. Replace the battery cover.



Display Unit Setup

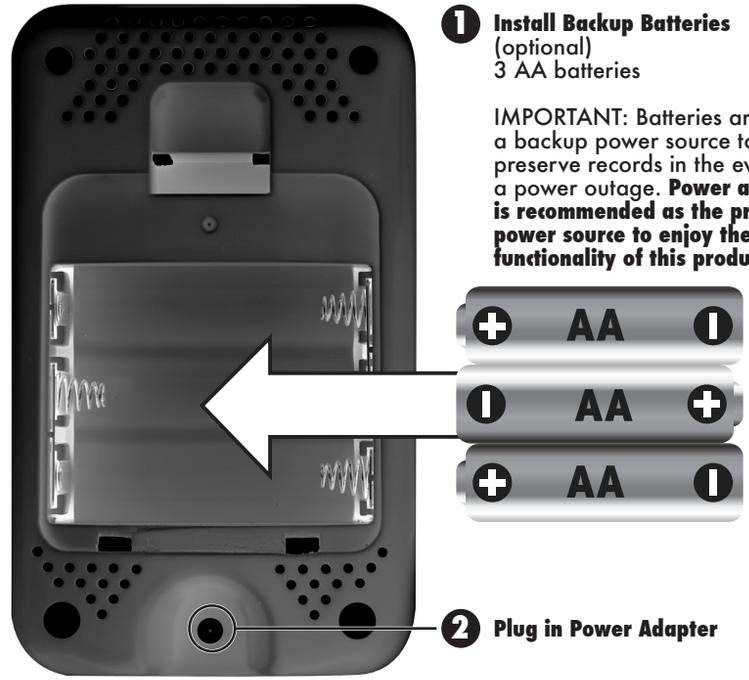
❶ Install or Replace Backup Batteries (optional)

AcuRite recommends high quality alkaline batteries in the display unit for the best product performance. Heavy duty or rechargeable batteries are not recommended.

1. Remove the battery compartment cover.
2. Insert 3 x AA alkaline batteries into the battery compartment, as shown. Follow the polarity (+/–) diagram in the battery compartment.
3. Replace the battery cover.

❷ Plug in Power Adapter

For the best performance, plug in the power adapter as the main power source for this product.


❶ Install Backup Batteries
(optional)
3 AA batteries
IMPORTANT: Batteries are a backup power source to preserve records in the event of a power outage. Power adapter is recommended as the primary power source to enjoy the full functionality of this product.
AA
AA
AA
❷ Plug in Power Adapter

PLEASE DISPOSE OF OLD OR DEFECTIVE BATTERIES IN AN ENVIRONMENTALLY SAFE WAY AND IN ACCORDANCE WITH YOUR LOCAL LAWS AND REGULATIONS.

BATTERY SAFETY: Clean the battery contacts and also those of the device prior to battery installation. Remove batteries from equipment which is not to be used for an extended period of time. Follow the polarity (+/-) diagram in the battery compartment. Promptly remove dead batteries from the device. Dispose of used batteries properly. Only batteries of the same or equivalent type as recommended are to be used. DO NOT incinerate used batteries. DO NOT dispose of batteries in fire, as batteries may explode or leak. DO NOT mix old and new batteries or types of batteries (alkaline/standard). DO NOT use rechargeable batteries. DO NOT recharge non-rechargeable batteries. DO NOT short-circuit the supply terminals.

Set the Time & Units

Press the "⚙" button, located on the back of the display unit, to enter SET MODE. Once in set mode, the preference you are currently setting will blink on the display.

To adjust the currently selected (flashing) item, press and release the " ↑ " or " ↓ " buttons (press and HOLD to fast adjust).

To save your adjustments, press and release the "⚙" button again to adjust the next preference. The preference set order is as follows:

CLOCK HOUR
CLOCK MINUTE
TEMPERATURE UNITS (°F or °C)

You will automatically exit SET MODE if no buttons are pressed for 10 seconds. Enter setup mode at any time by pressing the "⚙" button.

Display Backlight Settings

This weather station's color display features three different lighting settings: High (100%) brightness, Medium (60%) brightness and Low (30%) brightness

Using battery power alone, the backlight is available momentarily for 10 seconds by pressing the "BACKLIGHT" button.

When display is powered with the power adapter, backlight remains on at 100% brightness. Press "BACKLIGHT" button once to dim to 60% brightness; press again to dim to 30%, press a 3rd time to enter "AUTO DIM" mode.

AUTO DIM MODE: Automatically adjusts display brightness based on time of day	
6:00 a.m. - 8:00 p.m.	100% brightness
8:01 p.m. - 5:59 a.m.	30% brightness

Placement for Maximum Accuracy

AcuRite sensors are sensitive to surrounding environmental conditions. Proper placement of both the display unit and outdoor sensor are critical to the accuracy and performance of this product.

Display Unit Placement

Place the display unit in a dry area free of dirt and dust. Display unit stands upright for tabletop use or is wall-mountable.

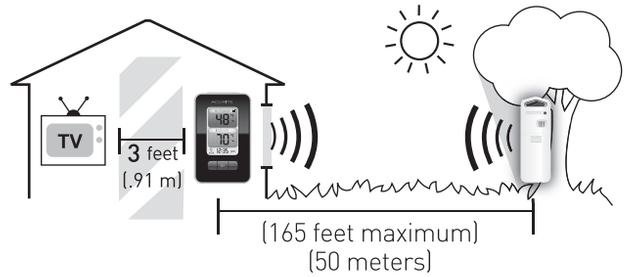
Outdoor Sensor Placement

Sensor must be placed outside to observe outdoor conditions. Sensor is water resistant and is designed for general outdoor use, however, to extend its life place the sensor in an area protected from direct weather elements.

Hang the sensor using the integrated hang holes or hanger, or by using string (not included) to hang it from a suitable location, like a well covered tree branch. The best location is 4 to 8 feet above the ground with permanent shade and plenty of fresh air to circulate around the sensor.

Important Placement Guidelines

- To ensure accurate temperature measurement, place units out of direct sunlight and away from heat sources or vents.
- Display unit and outdoor sensor must be within 165 ft (50 m) of each other.
- To maximize wireless range, place units away from large metallic items, thick walls, metal surfaces, or other objects that may limit wireless communication.
- To prevent wireless interference, place both units at least 3 ft (.9 m) away from electronic devices (TV, computer, microwave, radio, etc.)



Setup is Complete

The sensor will now synchronize with the display unit. It may take a few minutes for synchronization to complete. Please refer to the troubleshooting section of this manual if anything appears to be functioning improperly.

Using the Thermometer

High/Low Records

Today's high and low values are recorded for indoor and outdoor temperature. The high and low records automatically clear at 12:00am.

To view the LOW temperature record, press and release the " ⤓ " button. The "LOW" icon appears on the display next to the low records. To view the HIGH temperature record, press and release the " ⤒ " button. The "HIGH" icon appears on the display next to the high records.

To reset the LOW records, press AND HOLD the " ⤓ " button while viewing the low records. Dashes will display to confirm all low values have been cleared.

To reset the HIGH records, press AND HOLD the " ⤒ " button while viewing the high records. Dashes will display to confirm all high values have been cleared.

Troubleshooting

No outdoor sensor reception no bars	If the wireless signal indicator shows no bars: • Relocate the display unit and/or the outdoor sensor. The units must be within 165 ft (50 m) of each other. • Make sure both units are placed at least 3 feet (.9 m) away from electronics that may interfere with the wireless communication (such as TVs, microwaves, computers, etc). • Use standard alkaline batteries (or lithium batteries in sensor when temperature is below -4°F/-20°C). Do not use heavy duty or rechargeable batteries. NOTE: It may take up to 20 minutes for display unit and sensor to synchronize after batteries are replaced.
Outdoor temperature is flashing or showing dashes	Flashing of the outdoor temperature is generally an indication of wireless interference. 1. Bring both the sensor and display unit indoors and remove at least one battery from each. 2. Reinstall the battery in the outdoor sensor. 3. Reinstall the battery in the display unit. 4. Let the units sit within a couple feet of each other for about 20 minutes to gain a strong connection.
Inaccurate temperature	• Make sure both the display unit and sensor are placed out of direct sunlight and away from any heat sources or vents (see page 7).
Display screen not working	• Check that the batteries are installed correctly. Batteries may need to be replaced.

If your AcuRite product does not operate properly after trying the troubleshooting steps, visit www.AcuRite.com or call (877) 221-1252 for assistance.

Care & Maintenance

Display Unit Care

Clean with a soft, damp cloth. Do not use caustic cleaners or abrasives. Keep away from dust, dirt and moisture. Clean ventilation ports regularly with a gentle puff of air.

Outdoor Sensor Care

Clean with a soft damp cloth. Do not use caustic cleaners or abrasives.

Specifications

TEMPERATURE RANGE	Outdoor: -40°F to 158°F; -40°C to 70°C
	Indoor: 32°F to 122°F; 0°C to 50°C
WIRELESS RANGE	165 ft / 50 m depending on home construction materials
WIRELESS FREQUENCY	433 MHz
POWER	Display: AC power adapter 3 x AA alkaline batteries (optional)
	Sensor: 2 x AA alkaline or lithium batteries
DATA REPORTING	30 second updates

FCC Information

This device complies with part 15 of FCC rules. Operation is subject to the following two conditions:
1- This device may NOT cause harmful interference, and
2- This device must accept any interference received, including interference that may cause undesired operation.
WARNING: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, There is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
• Reorient or relocate the receiving antenna.
• Increase the separation between the equipment and the receiver.
• Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
• Consult the dealer or an experienced radio/TV technician for help.
NOTE: The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user authority to operate the equipment.
This device complies with Industry Canada licence-exempt RSS standard(s).
Operation is subject to the following two conditions:
(1) This device may not cause interference, and
(2) This device must accept any interference received, including interference that may cause undesired operation of the device.

Customer Support

AcuRite customer support is committed to providing you with best-in-class service. **For assistance**, please have the model number of this product available and contact us in any of the following ways:

(877) 221-1252 info@chaney-inst.com

24/7 support at www.**AcuRite**.com

- ▶ Installation Videos
- ▶ Instruction Manuals
- ▶ Replacement Parts
- ▶ Register your Product
- ▶ Support User Forum
- ▶ Submit Feedback & Ideas

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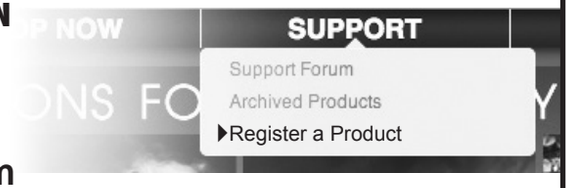
PRODUCT REGISTRATION
Register online
to receive 1 year
warranty protection
www.**AcuRite**.com



Limited One Year Warranty

At AcuRite, we proudly uphold our commitment to quality technology. Chaney Instrument Co. warrants that all products it manufactures to be of good material and workmanship, and to be free of defects when properly installed and operated for a period of one year from the date of purchase.

We recommend that you visit us at www.AcuRite.com for the fastest way to register your product. However, product registration does not eliminate the need to retain your original proof of purchase in order to obtain warranty benefits.

Chaney Instrument Co. warrants that all products it manufactures to be of good material and workmanship, and to be free of defects when properly installed and operated for a period of one year from the date of purchase. Remedy for breach of this warranty is limited to repair or replacement of the defective item(s). Any product which, under normal use and service, is proven to breach the warranty contained herein within ONE YEAR from date of sale will, upon examination by Chaney, and at its sole option, be repaired or replaced by Chaney. Transportation costs and charges for returned goods shall be paid for by the purchaser. Chaney hereby disclaims all responsibility for such transportation costs and charges. This warranty will not be breached, and Chaney will give no credit for products it manufactures which have received normal wear and tear, been damaged (including by acts of nature), tampered, abused, improperly installed, damaged in shipping, or repaired or altered by others than authorized representatives of Chaney.

The above-described warranty is expressly in lieu of all other warranties, express or implied, and all other warranties are hereby expressly disclaimed, including without limitation the implied warranty of merchantability and the implied warranty of fitness for a particular purpose. Chaney expressly disclaims all liability for special, consequential or incidental damages, whether arising in tort or by contract from any breach of this warranty. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. Chaney further disclaims all liability from personal injury relating to its products to the extent permitted by law. By acceptance of any of Chaney's products, the purchaser assumes all liability for the consequences arising from their use or misuse. No person, firm or corporation is authorized to assume for Chaney any other liability in connection with the sale of its products. Furthermore, no person, firm or corporation is authorized to modify or waive the terms of this paragraph, and the preceding paragraph, unless done in writing and signed by a duly authorized agent of Chaney. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

For in-warranty claims: Chaney Instrument Co.
965 Wells St., Lake Geneva, WI 53147

ACURITE®

Weather Stations

Temperature & Humidity

Weather Alert Radio

Kitchen Thermometers & Timers

Clocks

It's more than accurate, it's ACURITE®

AcuRite offers an extensive assortment of precision instruments, designed to provide you with information you can depend on to Plan your day with confidence™.

www.**AcuRite**.com

Printed in China
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